

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/769,576	01/25/2001	Bin-Shing Chen	3308	4502
7	590 02/26/2002			
•	e, Haller & Niro	EXAMINER		
Suite 4600 181 West Madison Street			TRAN, THIEN F	
Chicago, IL 6	0002-4515		ART UNIT	PAPER NUMBER
			2811	
		DATE MAILED: 02/26/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	pplicant(s)	/
•	09/769,576	CHEN, BIN-SHING	
Office Action Summary	Examiner	Art Unit	
•	Thien F Tran	2811	
The MAILING DATE of this communication app			9SS
Period for Reply	_		
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period v Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, r within the statutory minimum vill apply and will expire SIX (6 , cause the application to beco	may a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this commone ABANDONED (35 U.S.C. § 133).	nunication.
1) Responsive to communication(s) filed on	<u> </u>		
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.		
3) Since this application is in condition for allowed closed in accordance with the practice under			nerits is
Disposition of Claims			
4) Claim(s) 1-14 is/are pending in the application	l.		
4a) Of the above claim(s) 1-10 is/are withdrawn	n from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>11-14</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requiremer	ıt.	
Application Papers	·		
9) The specification is objected to by the Examine	r.		
10) The drawing(s) filed on is/are: a) accept	oted or b) 🗌 objected to	by the Examiner.	
Applicant may not request that any objection to the			
11) The proposed drawing correction filed on			
If approved, corrected drawings are required in rep	•		
12) ☐ The oath or declaration is objected to by the Ex	aminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13)⊠ Acknowledgment is made of a claim for foreign	n priority under 35 U.S	S.C. § 119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:			
 1. ☐ Certified copies of the priority document 			
2. Certified copies of the priority document			
 3. Copies of the certified copies of the prior application from the International Bu * See the attached detailed Office action for a list 	reau (PCT Rule 17.2	(a)).	age
14) Acknowledgment is made of a claim for domesti	·		oplication).
a) ☐ The translation of the foreign language pro	visional application h	nas been received.	
Attachment(s)	,, <u></u>	00	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Not	erview Summary (PTO-413) Paper No(s). ice of Informal Patent Application (PTO-1 er:	

Application/Control Number: 09/769,576

Art Unit: 2811

DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of claims 11-14 in Paper No. 3 is acknowledged. The traversal is on the ground(s) that the subject matter of the two groups is interrelated such that a complete search for full and proper consideration of patentability would be substantially overlapping. This is not found persuasive because it is well settled that related inventions are required to be restricted if it is shown that these inventions are distinct. It is clearly established by an example that group I and II inventions are in fact distinct in Paper No. 2. Also, the product and process are located in different classes, 438 and 257, respectively, placing an undue burden upon the examiner.

The requirement is still deemed proper and is therefore made FINAL.

Specification

The abstract of the disclosure is objected to because the invention is about the device, not the process of making the device. Therefore, the abstract should be directed to the device, its structure and operation instead of the steps of forming the device.

Correction is required. See MPEP § 608.01(b).

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed, a device not a method.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Application/Control Number: 09/769,576

Art Unit: 2811

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 11-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Fukumoto (US 5,753,953).

Fukumoto discloses the claimed EEPROM device (Fig. 1) comprising a silicon substrate 1 having a source/drain region; 2 a tunnel oxide layer 4 disposed over the silicon substrate; a select gate 6 disposed over the tunnel oxide layer, wherein the select gate is defined by conductive layer covered with a first insulated material 8a thereon and comprises a sidewall 8 made of a second insulated material; a floating gate 7 aligned to the select gate; a third insulated material 10 disposed over the tunnel oxide layer, the select gate and the floating gate; and a control gate 9 formed on the third insulated material.

Regarding claim 12, each of the first insulated material, the second insulated material and the third insulated material is one selected from a group consisting of silicon oxide, silicon nitride and silicon oxide/nitride composite.

Regarding claim 13, the conductive layer is made of polysilicon.

Regarding claim 14, the floating gate and the control gate are made of polysilicon.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thien F Tran whose telephone number is (703) 308-

Application/Control Number: 09/769,576

Art Unit: 2811

nber: 09/769,576 Page 4

4108. The examiner can normally be reached on 7:00AM - 3:30PM Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (703) 308-2772. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

tt February 19, 2002 TOM THOMAS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800